

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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imagery analysis report

SAL-Related Activities Summary Report

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INTRODUCTION

1. (TSR) This report is the fifth in a series of reports on SAL-related activities to be done by the National Photographic Interpretation Center. The report covers the period from [] and updates the preceding SAL Summary Report published in March 1980:

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NPIC [] S-001/80, *SAL-Related Activities: Summary Report (S)*, Mar 80 (TOP SECRET

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It contains four sections which deal with strategic land-based missiles (section 1), submarine-launched ballistic missiles (section 2), cruise missiles (section 3), and long-range aviation (section 4).

2. (TSR) Pertinent concealment, camouflage, and deception activity is included in the discussion of the various substantive areas.

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(S) Comments and queries regarding this report are welcome. They may be directed to the NPIC SALT coordinator, []

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Top Secret RUFF**LIST OF ACRONYMS AND ABBREVIATIONS***This list in its entirety is UNCLASSIFIED*

| | |
|---------|---|
| ABM | Antiballistic missile |
| ALCM | Air-launched cruise missile |
| AOSR | Radiological liquid carrier |
| ARD(D) | Floating drydock |
| ARD(T) | Transporter dock |
| ASAT | Antisatellite |
| ASM | Air-to-surface missile |
| ASW | Antisubmarine warfare |
| CAN/CAP | Canister/capsule |
| CSF | Complex support facilities |
| FTC | Flight test center |
| GSE | Ground support equipment |
| HE | High explosives |
| ICBM | Intercontinental ballistic missile |
| LAD | Launch assist device |
| LCF | Launch control facility |
| LRA | Long-range aviation |
| MSPT | Multisystem propellant transporter |
| MSTC | Missile/space test center |
| MTC | Missile test center |
| NMTC | Naval missile test center |
| NPIC | National Photographic Interpretation Center |
| NWPG | Nuclear weapons proving ground |
| PAT | Payload-associated transporter |
| PBV | Postboost vehicle |
| PGCS | Propulsion guidance control section |
| POE | Piece(s) of equipment |
| RAP | Reactor access plate |
| R&D | Research and development |
| RIM | Receiving, inspection, and maintenance |
| RP | Reporting position |
| RTP | Rail-to-road transfer point |
| SAL | Strategic arms limitation |
| SALT | Strategic Arms Limitation Treaty |
| SLBM | Submarine-launched ballistic missile |
| SMRA | Silo materials receiving area |
| SNA | Soviet naval aviation |
| SSB | Fleet ballistic missile submarine |
| SSBN | Nuclear-powered fleet ballistic missile submarine |
| SSGN | Nuclear-powered guided missile submarine |
| SSN | Nuclear-powered submarine |
| VLF | Very low frequency |
| YRSN | Nuclear ship support barge |

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SECTION 1

**Strategic Land-Based
Missiles**



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OFFENSIVE MISSILE ACTIVITY

4. (TSR) Partial coverage was acquired of all 19 ICBM complexes. The following table summarizes the coverage for [] This table does not reflect repetitive coverage.

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| Complex | Number of Launchers | Number of Launchers Observed at Least Once | Percent Observed at Least Once |
|----------------|---------------------|--|--------------------------------|
| Aleysk | 30 | 28 | 93 |
| Derazhnya | 90 | 36 | 40 |
| Dombrovskiy | 64 | 23 | 36 |
| Drovyanaya | 50 | 49 | 98 |
| Gladkaya | 60 | 59 | 98 |
| Imeni Gastello | 52 | 33 | 63 |
| Kartaly | 46 | 34 | 74 |
| Kostroma | 90 | 57 | 63 |
| Kozelsk | 110 | 45 | 41 |
| Olovyannaya | 90 | 83 | 92 |
| Perm | 80 | 58 | 73 |
| Pervomaysk | 90 | 30 | 33 |
| Svobodnyy | 60 | 55 | 92 |
| Tatishchevo | 120 | 28 | 23 |
| Teykovo | 80 | 44 | 55 |
| Uzhur | 64 | 64 | 100 |
| Yedrovo | 110 | 20 | 18 |
| Yoshkar-Ola | 60 | 39 | 65 |
| Zhangiz-Tobe | 52 | 39 | 75 |
| Total | 1,398 | 824 | 59 |

Modernized SS-11

5. (TSR) During the reporting period, only partial coverage was obtained at the six modernized complexes. Of the 420 launch sites, 348 were seen.

6. (TSR) Periodic maintenance was observed at two complexes and involved three launch groups.

Drovyanaya

7. (TSR) Forty-nine of the 50 launch sites, the CSF, the RTP, and the training site were seen. No significant activity was observed.

Gladkaya

8. (TSR) At Gladkaya, 59 of the 60 launch sites, the CSF, the RTP, and the training site were seen. Periodic maintenance was underway in the I group in March and in the G group during May.

Olovyannaya

9. (TSR) Eighty-three of the 90 launch sites, the CSF, the RTP, and the training site were seen. A large, temporary support area has been observed at site 46H since [] a truck-mounted crane and several vehicles were observed on the apron by the open silo. On [] a convoy of 10 vehicles was observed leaving the RIM area of the RTP. The vehicles included a nitrogen truck, two truck-mounted cranes, and seven support trucks. Three propellant vehicles were observed in the propellant area, while a fourth propellant vehicle and transfer van were seen near the propellant transfer racks. This activity could indicate that preparations were underway to load or unload some missiles, possibly in the H group.

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Perm

10. (TSR) At Perm, 58 of the 80 launch sites, the CSF, the RTP, and the training site were observed. Periodic maintenance was observed in the J group during March.

Svobodnyy

11. (TSR) Fifty-five of the 60 launch sites, the CSF, the RTP, the [] area, and the training site were seen. No significant activity was observed.

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Teykovo

12. (TSR) During the reporting period, 44 of the 80 launch sites, the CSF, the RTP, and the training site were seen. Activity, probably related to SS-11 launches, was seen in the G group as early as [] and continued through [] The activity included numerous vehicles and truck-mounted cranes at several sites, as well as open silo doors. Exhaust deflector rings were observed on the apron at two sites.

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SS-13

Yoshkar-Ola

13. (TSR) Thirty-nine of the 60 launch sites were imaged. Modernization within E group launch sites was underway.

SS-11 and SS-17

14. (TSR) Only 77 of the 200 launch sites and 13 of the 20 LCFs at Kostroma and Yedrovo SSM Complexes were imaged.

15. (TSR) The number of completed SS-17 type IIIH silos remained at 150, and the number of SS-11 type IIID silos remained at 50.

16. (TSR) Fifteen LCFs are operational, and five launch control silos remained backfilled.

Kostroma

17. (TSR) Fifty-seven of the 90 launch sites, seven of the nine LCFs, the RTP, the CSF, the training site, and the silo materials receiving area were imaged. Probable periodic maintenance was underway in the J, L, and Q groups during the reporting period. LCF JJ was completely backfilled, and the area in and around it was graded. Several vehicles were on the silo apron at site 99P, and housetrailer were at launch sites 100P and 101P.

Yedrovo

18. (TSR) Twenty of the 110 launch sites, six of the 11 LCFs, the RTP, the CSF, the training site, and the silo materials receiving area were imaged. Probable periodic maintenance was underway at two sites in the K group during March.

| | Total Launch Groups | SS-11 Launch Groups | SS-17 Launch Groups | Launch Groups Under Conversion |
|----------|---------------------------|---------------------------|---------------------------|--------------------------------------|
| Yedrovo | 11 | 0 | 11 | 0 |
| Kostroma | 9 | 5 | 4 | 0 |
| Total | 20 | 5 | 15 | 0 |

SS-11 and SS-19

19. (TSR) Only partial coverage of the four SS-19 complexes was obtained during the reporting period.

20. (TSR) The number of completed type IIIG silos was 330, the number under conversion was 30, and the number undergoing modification was 40. The number of type IIID silos remained at 50.

Kozelsk

21. (TSR) Forty-five of the 110 launch sites and seven LCFs were imaged. No change was observed at the five backfilled LCFs—KK, MM, OO, PP, and QQ.

| Complex | Total Launch Groups | SS-11 Launch Groups | SS-19 Launch Groups | Launch Groups Under Conversion | Launch Groups Under Modification |
|-------------|---------------------------|---------------------------|---------------------------|--------------------------------------|--|
| Kozelsk | 11 | 5 | 6 | — | — |
| Tatishchevo | 12 | — | 9 | 3 | — |
| Derazhnya | 9 | 3 | 6 | — | 2 |
| Pervomaysk | 9 | 3 | 6 | — | 2 |
| Total | 41 | 11 | 27 | 3 | 4 |

22. (TSR) Activity relating to the previously reported SS-11 missile recycling was seen at launch sites 125Q, 128Q, 130Q, and 131Q. This activity did not include silo loading/unloading or propellant operations. Only general-purpose vehicles were observed.

Tatishchevo

23. (TSR) Twenty-eight launch sites, five LCFs, and the RTP were seen. Conversion activity was continuing in Launch Groups H, J, and K.

Derazhnya

24. (TSR) Thirty-six launch sites and two LCFs were seen. Modification of the launch sites and LCFs was continuing in Launch Groups A and C.

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Pervomaysk

25. (TSR) Thirty launch sites, four LCFs, [] and the RTP were seen. 25X1
Modification of the launch sites and LCFs was continuing in Launch Groups B and D.

| Complex | SS-11 Launch Groups | SS-19 Launch Groups | Launch Groups Under Conversion | Launch Groups Under Modification | LCF |
|--------------------|---------------------------|---------------------------|--------------------------------------|--|-----------------------------|
| Kozelsk | | | | | |
| G | | X | | | Complete |
| H | | X | | | Complete |
| I | | X | | | Complete |
| J | | X | | | Complete |
| K | X | | | | Backfilled |
| L | | X | | | Complete |
| M | X | | | | Backfilled |
| N | | X | | | Complete |
| O | X | | | | Backfilled |
| P | X | | | | Backfilled |
| Q | X | | | | Backfilled |
| Tatishchevo | | | | | |
| A | | X | | | Complete |
| B | | X | | | Complete |
| C | | X | | | Complete |
| D | | X | | | Complete |
| E | | X | | | Complete* |
| F | | X | | | Complete |
| G | | X | | | Complete |
| H | | | X | | Ucon |
| I | | X | | | Complete* |
| J | | | X | | Ucon |
| K | | | X | | Ucon |
| L | | X | | | Complete |
| Derazhnya | | | | | |
| A | | X | | X | Undergoing modification* |
| B | | X | | | Complete |
| C | | X | | X | Undergoing modification* |
| D | | X | | | Complete* |
| E | | X | | | Complete |
| F | | X | | | Complete |
| G | X | | | | Complete |
| H | X | | | | Complete |
| I | X | | | | Complete |
| Pervomaysk | | | | | |
| A | | X | | | Complete* |
| B | | X | | X | Undergoing modification* |
| C | | X | | | Complete |
| D | | X | | X | Undergoing modification* |
| E | | X | | | Complete |
| F | | X | | | Complete |
| G | X | | | | Complete |
| H | X | | | | Complete |
| I | X | | | | Complete |

*Denotes a modified LCF.

SS-18

26. (TSR) Partial coverage was obtained at five of the six complexes, and complete coverage was obtained at the Uzhur SSM Complex. Of the 308 launch sites, 221 were observed. All the RTPs were observed, and the support facilities were partially observed. The number of completed type IIIF launch silos remains at 248. The remaining 60 silos were still under construction. The number of completed LCFs remained at 38. Construction continued at all six of the training sites.

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27. (TSR) Twenty-eight of the 30 launch sites and all of the support facilities were seen. Conversion activity was nearly complete in Launch Group E. During May, two empty CAN/CAP trains and two probable CAN/CAP-associated components were in the RTP. Construction was complete on the utility support building in the [] facility.

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Dombarovski

28. (TSR) At Dombarovski, 23 of the 64 launch sites and all the complex support facilities were seen. Conversion activity continued in Launch Group J which is in the late stages of construction. Equipment observed in the RTP during May included four SS-18 missiles with upper canister sections, SS-18 Mod-4 PBV/PGCS containers, and one LCF capsule with associated components. This equipment is probably for Launch Group J, the last group where silo conversion is not yet complete.

Imeni Gastello

29. (TSR) Thirty-three of the 52 launch sites and all the support facilities were seen. Conversion of Launch Groups G and H continued. Most of the silo doors had been installed in Launch Group G, and the silo headworks had been installed in most of the silos in Launch Group H. Two SS-18 missiles with upper canister sections and Mod-4 PBV/PGCS containers were observed in the RTP during May. An LCF capsule and its associated components were also seen. This equipment is probably for Launch Group G, which should be the next launch group where silo conversion will be completed.

Kartaly

30. (TSR) During the reporting period, 34 of the 46 launch sites and all the support facilities were seen. Launch Groups F and G were under conversion. In Launch Group G, the silo doors were being installed, and in Launch Group F, the headworks and silo door housings were being installed. During April, three SS-18 missiles with upper canister sections and Mod-4 PBV/PGCS containers were in the RTP. An LCF control capsule and its associated components were also present. This equipment is probably for Launch Group G, which should be the next launch group completed.

Uzhur

31. (TSR) All 64 launch sites and support facilities were seen. Conversion at Launch Groups I and J continued. Conversion was almost complete in Launch Group I, where all the silo doors had been installed and the gantry cranes removed. In Launch Group J, the silo door housings were being installed. Equipment observed in the RTP during April and May included six SS-18 missiles with upper canister sections and Mod-4 PBV/PGCS containers. An LCF capsule and its associated components were also present. This equipment is probably for Launch Group I where silo conversion is almost complete.

Zhangiz-Tobe

32. (TSR) Thirty-nine of the 52 launch sites and the support facilities were observed. Conversion of Launch Groups G and H continued. Most of the silo doors have been installed in Launch Group H. In Launch Group G, the headworks have not been installed. During May, probable periodic maintenance was underway in Launch Group C. Equipment observed in the RTP included four SS-18 missiles, one canvas-covered CAN/CAP transporter, two SS-18 Mod-4 PBV/PGCS containers, and an LCF capsule with its associated components. This equipment is probably for Launch Group H which should be the next launch group where silo conversion will be completed.

SS-18 Launch Group Status

| Complex | Launch Groups Complete | Launch Groups Ucon |
|----------------|-----------------------------------|---------------------------|
| Aleysk | A, B, C,* D* | E* |
| Dombarovski | A, B, C, D, E,* F,* G,* H,* I* | J* |
| Imeni Gastello | A, B, C,* D,* E, F* | G,* H* |
| Kartaly | A, B, C, D,* E* | F,* G* |
| Uzhur | A, B, C, D,* E,* F* G,* H* | I,* J* |
| Zhangiz-Tobe | A, B, C, D,* E,* F* | G,* H* |
| Total Groups | 38 | 10 |

*Denotes a modified LCF.

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MISSILE TEST RANGES AND FACILITIES

Tyuratam

36. (TSR) Observations associated with strategic missiles at the Tyuratam MSTC during the reporting period included an ASAT launch from Space Launch Site G1 A/B, probable silo conversion and/or dismantlement activity at six of the 18 SS-9 launch sites, the presence of type IIHF and type IIIG silo headworks components at the test center, and prelaunch and postlaunch activity associated with two SS-17 launches, three SS-18 launches, and one SS-19 launch.

37. (TSR) At Space Launch Site G1 A/B, an ASAT launch occurred [] On postlaunch coverage of [] a burn mark was identified on launch pad G1 B. On prelaunch coverage of [] no activity was observed at either launch pad. 25X1 25X1

38. (TSR) At SS-9 launch sites K1, K2, K3, O1, O4, and P1, probable early silo conversion and/or dismantlement activity has been seen since mid-April. The presence of housetrainers, an unidentified tank trailer, and a set of missile stage transporters at some of the sites probably indicated initial conversion or dismantlement activity.

39. (TSR) At site K1, eight housetrainers have been seen parked along the site access road since [] At site K2, three housetrainers have been seen parked within the site loop road since [] Also at site K2, a set of SS-9 missile stage transporters has been seen parked near the housetrainers since [] At sites K3, O1, O4, and P1, an unidentified tank trailer has been seen parked at the front of the silo headworks. A small area on the silo apron around the trailer was covered by a dark stain at all four sites. The tank trailer has been seen at sites K3, O1, and O4 since mid-April and at P1 since mid-May. This activity involving the tank trailer has not been seen at the test center before nor at any site at the former deployed SS-9 complexes. 25X1 25X1 25X1 25X1

40. (TSR) On [] two sets of type IIHF (SS-18) headworks sections were identified in the material receiving area of Space Launch Site U1/2. On [] two additional sets of headworks sections were identified. The presence of these sections and the probable early silo conversion and/or dismantlement activity suggests that preparations are being made to convert at least six SS-9 sites to SS-18 sites. 25X1 25X1

41. (TSR) On [] three sets of modified type IIIG (SS-19) headworks sections were first seen in the material receiving area of Support Facility 7. On [] two additional sets of headworks sections were identified in the same area, and on [] two more sets were identified for a total of seven sets of headworks sections in this area. Also, two sets of sections were first seen on [] in the material receiving area of the Central Support Facility. No construction activity or preparations for activity have been seen at any of the type IIIG launch sites or the older type IIID (SS-11) sites. 25X1 25X1 25X1 25X1

42. (TSR) A correlation between six ICBM launches from Tyuratam and their specific launchers was detected. Table 1 summarizes this launch activity.

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Table 1.
Tyuratam ICBM Launch Activity

This table in its entirety is classified TOP SECRET RUFF

| Launch Site | Observation | 25X1 |
|-------------|--|------|
| V5 | On [] imagery, heavy snow precluded the identification of a spent LAD | 25X1 |
| | On [] imagery the spent LAD was identified | 25X1 |
| V7 | On [] a propellant operation was underway; 2 MSPTs & 6 trucks were positioned at the open silo; 1 other MSPT was parked on the apron turnaround | 25X1 |
| | On [] the propellant operation continued with 1 MSPT & 6 trucks positioned at the open silo | 25X1 |
| | On [] a spent LAD was in the usual onsite impact zone | 25X1 |
| R7N | On [] the silo apron was darkened; a spent LAD was in the usual onsite impact zone | 25X1 |
| R7S | On [] at 0622Z, the silo door was closed & 2 van trailers were parked at the silo | 25X1 |
| | On [] the silo apron was darkened; a spent LAD was in the usual onsite impact zone | 25X1 |
| R8 | On [] the silo apron was darkened; a spent LAD was observed in the usual onsite impact zone | 25X1 |
| S10 | On [] a silo loader was positioned at the open silo; a canvas-covered missile transporter was parked on the silo access road | 25X1 |
| | On [] 3 MSPTs were parked on the silo access road; a cover was in the open silo; the propellant loading operation was not imaged | 25X1 |
| | On [] the silo apron was darkened from the [] launch | 25X1 |
| | On [] a silo unloading operation was underway; an empty silo loader was positioned at the open silo & a spent & darkened canister was on a transporter nearby | 25X1 |

[] 25X1

Plesetsk

43. (TSR) Significant observations during the reporting period consisted of the installation of a type IIIH silo door and door pocket on the southeast silo and the identification of a new silo component at the northwest silo at launch site 28; components for an LCF at the Missile Handling Facility; checkout operations at launch site 11; and activity at launch site 21. The single silos being modified at launch sites 14 and 22 have been canvas covered and inactive since June 1979.

44. (TSR) Two type IIIH silo door pockets were observed on [] on the aprons of the two silos at launch site 28. Between [] a type IIIH silo door and door pocket were installed on the southeast silo. At the northwest silo, a type IIIH silo door and door pocket were observed on the apron on imagery of [] They have remained on the apron. A probable silo liner section was positioned by the gantry crane over the northwest silo on [] the silo liner section had been installed in the silo. On imagery of [] a new silo component was identified on the apron at the northwest silo. The new component will be installed in the headworks area of the silo between the silo liner and the IIIH door pocket. The new component will add approximately 3 meters to the usable depth of the silo.

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45. (TSR) LCF silo components were identified at the SMRA of the Missile Handling Facility on [] 25X1
[] Components included three LCF headworks base components and six LCF headworks sections. Two type 25X1
IIH silo doors, two type IIH door pockets, and three type IIH silo liner segments were also observed at the
SMRA during the reporting period.
46. (TSR) Silo checkout operations have been observed since at least [] at both silos of launch site 25X1
11. The checkout operation was apparently terminated by [] when both silo doors were closed 25X1
and all checkout vehicles had been removed from the site. During the checkout operation, the south silo
door was observed open on [] The north silo door was observed open only on [] 25X1
[] 25X1
47. (TSR) Numerous crates were observed at launch site 21 on [] and five to seven vehicles 25X1
have been at the site security area since at least [] This site had been inactive since the termination 25X1
of the SS-16 testing at the site in 1976. The activity may indicate that the site is being refurbished for
future testing.

SEMIPALATINSK NWPG SHAGAN RIVER TEST AREA

48. (TSR) During this reporting period, activity continued at silo areas 23 and 89 and at a new vulnerability area where two new silos were under construction. Since late March 1980, a significant increase in the level of activity has been observed at the three areas. No calibration or vulnerability tests were conducted at the test area during the reporting period.

49. (TSR) At silo area 23, modification continued to silo 5 (type IIIG/SS-11 Mod-2/-3) and what appears to be a general overhaul was started at silo 6 (type IIID/SS-11). At silo 5, the old IIIG headworks were removed from the silo in late March, and modified IIIG headworks were installed by late April. By the end of May, construction activity associated with the installation of the new door pocket and door was underway. Preparations for a vulnerability test against silo 5 were also underway. Prefabricated concrete blocks for an HE simulation structure were adjacent to the silo apron, and both small-diameter drill shafts (rosettas) and a large-diameter drill shaft had been or were being drilled near the silo. The preparations indicate that the test against silo 5 will be similar to the test conducted against silo 2 (type IIIG/SS-19) in September 1979.

50. (TSR) At silo 6, the door was removed and excavation work was begun around the upper portion of the silo. The activity appeared, at least during the early stage, to be general overhauling. The silo was subjected to vulnerability tests in October 1974 and August 1976, which probably necessitated that the silo be overhauled before the next test. Test preparations involving an HE simulation structure and drill shafts were underway at the end of May. The simulation structure will apparently be an arch-roofed structure, similar to the one assembled for the test at silo 1 (launch control silo) in September 1979.

51. (TSR) No activity was observed at silos 1, 2, 3, and 4 or at the small, non-missile silos 7, 8, and 9 during this reporting period.

52. (TSR) At silo area 89, construction continued at silos 10 through 13, but no activity was observed at silo 14. The five silos have been identified as a type IIIF (silo 10), a launch control silo (silo 11), a type IIIG (silo 12), a modified type IIH (silo 13), and a probable type IIH (silo 14). The silos incorporated most of the modifications observed at the fourth-generation ICBM sites since 1974. By [] 25X1
[] construction was in a late stage. The silo doors had been installed at silos 10, 12, and 13 and were 25X1
ready to be installed at silo 11. The launch control support building adjacent to silo 11 was externally complete, and the underground passageway from the building to the silo was nearly complete. Approximately two months of construction remain at silos 10 through 13. Six to eight months remain at silo 14 when construction starts again. The instrumentation bunkers near each silo were still in an early stage of construction. No activity was observed at the 30-meter-diameter excavation or at the triple-fence secured, partially underground structure.

53. (TSR) The new vulnerability area, designated area 108, is about 8 kilometers (km) northwest of silo area 23 and about 10 km northwest of silo area 89. By the end of May, the main features of the area consisted of two silo corings and a large linear trench. At this time, the identification of the types of silos and the function of the trench were not known.

54. (TSR) The larger of the two silo corings has a facing diameter of [] The depth of the 25X1
silo headworks area is [] The inner silo diameter at the ledge is [] Nine probable silo 25X1
wall segments, each [] long, and a possible silo base were adjacent to the coring on [] 25X1
The smaller silo has a facing diameter of [] No provision for a silo headworks area was observed. In 25X1
early May, the depth of the silo coring was [] 25X1

DEFENSIVE MISSILE ACTIVITY

Sary-Shagan Missile Test Center

Launch Complex B

55. (TSR) During this reporting period, Complex B was observed 22 times (19 complete and three partial coverages). A GALOSH ABM canister was engaged in the launcher at launch position C1 between [] A canister was also engaged in the launcher at launch position C2 between [] and at launch position C3 on [] and again between [] Also on [] a GALOSH ABM canister with prime mover was next to launch position C3. No activity was observed at launch silo C4 during the reporting period.

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56. (TSR) A missile exercise was observed at launch silo C5. The top of a probable missile canister was observed inside the silo on [] a CAN/CAP silo loader was backed up to the closed silo door. When the silo was observed from [] an environmental cover was over the aperture; the exhaust deflector ring was on the silo apron on all coverages during the reporting period.

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57. (TSR) At Launch Facility B, construction was continuing on two possible fueling points.

Launch Complex D

58. (TSR) Launch Complex D was observed 13 times (nine complete and four partial coverages). At Complex D, the sliding shelter on the B-1 building, the probable laser facility, was closed each time it was imaged. Throughout this reporting period, the inflatable cover over the radome at the EGG HEAD radar remained deflated, showing the longitudinal ribbing on the radome. On the coverages which included the American deck water coolers, no vapors were observed.

Launch Complex F

59. (TSR) Launch Complex F was observed 26 times (ten complete and 16 partial coverages). At silo 3B, a silo-loading exercise was observed on [] A probable SH-08 ABM canister ([] was on a probable CAN/CAP silo loader aligned with the open silo. Also, on [] a probable ABM transporter (possibly present on [] was on the central access road of old launch site 3. On [] the silo door was closed and no equipment was on the service apron. On [] a probable MAZ-543 crane was at the open silo.

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60. (TSR) At the new aboveground launch position, 3D, a launch tube was observed on the ground on [] the launch tube had been emplaced in the vertical arms of the launcher mechanism. By [] concrete paving blocks had been laid for the servicing apron and the access road to the launch tube, and the launch position appeared to be operational.

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Operations Support Base

61. (TSR) The Operations Support Base was observed 30 times (16 complete and 14 partial coverages). From ten to 11 GALOSH canisters were observed at the servicing apron in the Explosives and Solid Propellant Handling Facility. Since [] an additional GALOSH canister has been at the main hangar of the airfield for a total of four at that location. On [] a probable ABM transporter was adjacent to the main hangar. This transporter appeared to be the same type observed at Launch Complex F on []

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62. (TSR) On [] at Liquid Propellant and Handling Facility B, the new ribbed ABM canister was on a six-axle transporter. This ABM canister type has been associated with ABM silo launches from Launch Complex B.

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R&D Radar Facilities 1, 2, and 3

63. (TSR) R&D Radar Facilities 1, 2, and 3 were completely or partially observed seven times during the reporting period.

64. (TSR) Significant activity was observed at Radar Facility 1 (commonly referred to as the Lazy L radar). On [] a new SQUARE PAIR radar was on a hardstand north of the receiver antenna. The SQUARE PAIR radar was not present on [] A possible clutter screen, previously referred to as an unidentified structure about 810 meters in front of the radar, was about 70 percent complete on []

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65. (TSR) No significant activity was observed at R&D Radar Facilities 2 and 3 during the reporting period.

Top Secret RUFF

R&D Complex

66. (TSR) The Sary-Shagan R&D Complex, Facility A, was imaged 25 times during the reporting period. The dome on the south building was over the coelostat on all coverages. The cooling system was filled, checked out, and purged during late April. Apparently, construction on the north building (approximately 90 percent externally complete) has been terminated. No construction equipment or personnel were imaged at the facility during the reporting period. Heavy rainfall during early-to-mid May has probably created a serious water problem within the north building. Water was standing midway up the drive-in ramp on the north end of the building during late May, and no pumping activity has been observed.

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Moscow ABM Facilities

70. (TSR) The 32 dismantled launchers at the deployed ABM launch complexes were still inoperative as of [redacted]. The cabletrays from the TRY ADD radar buildings to the launch positions at Launch Complex E33 remained intact; however, the junction boxes were still uncovered. Dismantled launcher components—including base plates, launcher arms, and rings—remain in the housing and support facilities at Launch Complexes E05, E24, and E33; they have not been identified in the Launch Complex E31 housing and support facility. A new structure was under construction in the operations support area of Launch Complex E05 on [redacted]. It was not present on [redacted].

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| Launch Complex | Date Observed | Launch Positions Observed | GALOSH Canister Engaged | Launchers Dismantled |
|----------------|---------------|---------------------------|-------------------------|----------------------|
| E05 | | 16 | 8 | 8 |
| | | 3 | 1 | 2 |
| | | 16 | 7 | 8 |
| E24 | | 16 | 8 | 8 |
| | | 16 | 6 | 8 |
| | | 16 | 6 | 8 |
| | | 16 | 6 | 8 |
| | | 16 | 5 | 8 |
| E31 | | 16 | 6 | 8 |
| | | 9 | 3' | 5 |
| | | 11 | 6 | 3 |
| E33 | | 16 | 7 | 8 |
| | | 2 | — | 2 |
| | | 3 | 2/3 | 1 |
| | | 16 | 7 | 8 |

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71. (TSR) The Borovsk ABM Support Facility was observed four times. Forty-seven GALOSH canisters were present on [redacted] 46 on [redacted] and 45 on [redacted]. Construction was progressing slowly on the building across from the new clerestory building.

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72. (TSR) The Moscow SAM and ABM Training Facility was observed nine times. No GALOSH ABM canisters were engaged in the launcher on any of these occasions.

Top Secret RUFF

73. (TSR) The DOG HOUSE and CAT HOUSE battle management radar facilities were observed three times and two times, respectively, during the reporting period. No significant activity was observed at either facility.

Deployed ABM-Related Radars

74. (TSR) The Pechora Phased-Array Radar Facility was observed 14 times during the reporting period. A possible beam forming/side lobe suppression device was in an early stage of construction on both sides of the transmitting antenna on [REDACTED]. The device, first observed under construction on [REDACTED] [REDACTED] presently consists of two parallel rows of buried concrete blocks on each side of the antenna with a vertical support in the center of each block. The suggested function of the device was based on its location and the presence of a triangular lattice structure on the ground near the rows of buried concrete blocks. The device originates at the face of the transmitting antenna and extends from the antenna base at about a 30-degree angle. When complete, these triangular lattice structures will probably support some type of beam forming/side lobe suppression device.

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75. (TSR) Additionally, the surface panels on the face of the transmitting and receiving antennas at the Pechora Phased-Array Radar Facility appeared to have been replaced between [REDACTED] [REDACTED]

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76. (TSR) The Lyaki Phased-Array Radar Facility was completely or partially observed three times during the reporting period. The previously reported SA-3 SAM site, Geokchay SAM Site B02-3 (BE [REDACTED]) will be a permanent site, as indicated by the construction of four revetted launch positions, an excavation for a central guidance-control area, and the presence of arch-roofed concrete bunker sections.

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77. (TSR) The Sary-Shagan HEN HOUSE Radar Facility was not imaged during this reporting period. However, the previously reported SA-5 SAM site, Balkhash SAM Site B25-5 ([REDACTED]) was complete and occupied.

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78. (TSR) The Mishelevka, Mukachevo, Sevastapol, and Olenegorsk HEN HOUSE Radar Facilities were imaged two, three, seven, and four times, respectively. No significant activity was observed at any of these radar facilities.

79. (TSR) The Sary-Shagan Phased-Array Radar North and the Skrunda HEN HOUSE Radar Facility were not imaged during the reporting period.

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SECTION 2

**Submarine-Launched Ballistic
Missiles**



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Submarine Production

Severodvinsk Construction Activity

86. (TSR) Numerous construction projects were ongoing at the complex during this reporting period. In addition to the continuation of previously reported projects, construction of two support buildings near construction hall 2 and excavation for a construction site behind fabrication building 2 were begun during this period. Possible new berthing facilities were under construction at the northeast end of the complex across the inlet from the powerplant.

SSBN Dismantlements

87. (TSR) **Y-class SSBNs.** Y-class submarine units 1 and 2 remained at the main quay at Shipyard Yagry Island throughout this reporting period. Some minor topside activity was observed on the sail and in the area of the VLF buoy housing. A Zeya YRSN was outboard the submarines for much of the reporting period; however, no reactor work or major reconstruction activity was observed. Unit 4 of the dismantled submarines remained at the main fitting-out quay at Shipyard 402 throughout this reporting period. Several pieces of outer-hull plating have been removed, and the pressure hull was penetrated over the reactors. Unidentified reactor work and topside activity was continuing at the end of this reporting period. This is the only one of the four dismantled units on which substantial postdismantlement work has begun.

88. (TSR) The dismantled Y-class submarine unit 3 remained on the open repairway adjacent to repair hall 1 at Petrovka Naval Base and Shipyard throughout the reporting period. The bow and stern sections were still not joined, and no significant topside activity was observed.

SSBN Overhauls

89. (TSR) **D-class SSBNs.** Overhaul and refueling of the two D-I SSBNs placed inside the repair halls at Shipyard Yagry Island in December 1979 and February 1980 was continuing during the reporting period.

90. (TSR) **Y-class SSBNs.** Two Y-I SSBNs remained in overhaul inside the repair hall at Shipyard Yagry Island. These units have been in the repair hall since May 1979 and January 1980, respectively. Postoverhaul fitting-out of the Y-I SSBN that was removed from the repair hall between [] was continuing. On [] this submarine was in the stream near the deperming pier at Shipyard 402, indicating that the submarine was in the late stage of overhaul, although actual deperming was not observed. Between [] the Y-I SSBN departed the Severodvinsk complex for sea trials/redeployment to its North Fleet operating base.

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91. (TSR) At least two and possibly three Y-I SSBNs were in various stages of overhaul/refueling at Petrovka. The Y-I SSBN which entered the repair hall between [] was removed from the hall between [] This unit had occupied the north set of rails in the repair hall. Since its removal, this unit has been berthed at the slanted pier, for postoverhaul fitting-out. The Y-I SSBN which entered the repair hall between [] remained inside the hall. Between [] the RAP for this unit was moved from the open storage area to the quay. The Y-I SSBN which arrived at the slanted pier in December is still there. No significant topside activity has been observed on this unit. Between [] this unit was placed in an ARD(T). The bow and stern of this submarine have scaffolding around them.

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92. (TSR) The Y-I SSBN which entered the covered ARD(D) at Petropavlovsk K Shipyard Seldavaya Bay East on [] returned to Petropavlovsk K Shipyard and Naval Base Seldavaya Bay by [], where it remained adjacent to a 199C YRSN.

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93. (TSR) **H-class SSBN.** An H-II-class SSBN entered the open ARD(D) at Petropavlovsk K Shipyard Seldavaya Bay East by [] and remained throughout the reporting period. Scaffolding has been placed along the entire length of the submarine, and all three missile tube doors were open from []

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94. (TSR) The H-II SSBN that was believed to be at Pala Guba for refueling in December 1979 has departed the base. No significant change has taken place on the H-II SSBN which has been at Rosta since March 1978.

Tunneling

95. (TSR) At Ara Guba and Sayda Guba, the concrete supporting structures for the entrances to the two main tunnels appeared to be complete. The smaller access tunnel appeared to be serviceable. A concrete retaining wall has been built between the shoreline and the entrance to the main tunnel. Behind the retaining wall, the tunnel was being excavated below sea level.

96. (TSR) No significant activity was observed at the tunnel under construction at Strelok Strait Submarine Base Pavlovskogo Bay. Construction continued at a slow pace.

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SLBM Test Centers**Nenoksa Naval Missile Test Centers**

97. (TSR) **Launch Facilities B and C.** No change or activity was observed at either launch facility during the reporting period.

98. (TSR) **Launch Facility D.** Missile-related activity was observed at the facility in connection with

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99. (TSR) On [] two possible personnel hoists were near the launch tube. On [] two sets of personnel work platforms were near the launch tube. They were no longer observed on []

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100. (TSR) By [] the launch tube cover (formerly the front cover section of the erector/-loader) had been removed from over the launch tube. On [] the two cover sections remained over the erector/loader, but there had been traffic on the rail spur up to the erector/loader and to the east side of the launch building between [] the top of the launch building was clear of all objects, and the mobile crane and cover sections had been moved into the support area south of the site. Two flatcars and a shunting engine were on the rail line north of the site. The objects on the cars included two personnel hoists. On posttest imagery of [] the launch tube cap was completely visible, and the two flatcars had been moved farther north away from the site.

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101. (TSR) On [] the launch tube cover was again over the launch tube, and on [] the erector/loader was elevated. On [] the two sections of the cover were back over the erector/loader, and a possible personnel hoist was on the launch building on [] This activity was similar to that observed in February after the first test launch. On [] a personnel hoist was on a flatcar on the rail spur east of the launch building; on [] the flatcar was gone. The mobile crane remained near the launch tube. The launch tube and the erector/loader remained covered.

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Balaklava Missile Test Center

102. (TSR) Balaklava Submarine Base was covered eight times by interpretable imagery between [] SLBM-related activity was observed in the movement of the Golf V SSB and at the SLBM popup barge (platform 8). The Golf V was present on [] but by [] it had moved to a position southwest of the base. The submarine was back at the base on [] the submarine was again southwest of the base and had not returned by []

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103. (TSR) A possible work platform was on the SLBM popup barge on [] the barge was moved farther south along the quay, and a mobile crane was over the area where the platform had been observed. On [] the crane was gone and the possible platform was no longer observed.

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104. (TSR) Expansion of instrumentation site 2 was observed on [] A building was under construction, and holes for footings for possibly two other buildings were being dug. Construction continued through []

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105. (TSR) Between [] the SLBM popup barge was moved to Sevastopol Shipyard Sevmorzavod 497. The barge was last observed at Balaklava Submarine Base on [] An older SLBM popup barge (platform 5) and the cruise missile popup barge were also present. Between [] another SLBM popup barge (platform 6) was taken to Sevastopol and was later dismantled.

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Cruise Missiles



SECTION 3

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CRUISE MISSILE DEVELOPMENT

Testing

106. (TSR) Cruise missile activity at Nenoksa Naval Missile Test Center was observed at Launch Facility A and in the cruise missile checkout area. On [] canisters in the cruise missile checkout area were aligned near the high-bay building. By [] the SS-NX-19 crates in the area had been moved along the fence. Between [] three additional SS-NX-19 crates arrived in the checkout area. On [] the line of canisters appeared to be covered and they could no longer be counted. Also on [] a [] long cruise missile airframe on a dolly, a truck, and a mobile crane were approximately 0.5 km east of Launch Facility A heading toward the facility. On [] the mobile crane was next to the SS-NX-19 loading tray on the east side of launcher A-1. On [] one of the SS-NX-19 crates was missing from the cruise missile checkout area. By [] the crate had returned and a missile dolly was also present. By [] at Launch Facility A, the mobile crane and the loading tray were moved to the west side of launcher A-2. Between [] three SS-NX-19 crates were removed from the cruise missile checkout area. Between [] the loading tray was moved to the east side of launcher A-1.

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107. (TSR) Cruise missile activity was observed at Severodvinsk Shipyard 402, where a new class of cruise missile submarine (NPIC interim designator 402U) was launched between [] an SS-NX-19 loading tray was observed on the quay near the new submarine. By [] a second SS-NX-19 loading tray had arrived. On [] one of the loading trays was mounted over a portside launch tube on the 402U. The popup testing of the SS-NX-19 was accomplished at Balaklava Missile Test Center.

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108. (TSR) Activity associated with cruise missile testing was observed at Balaklava Missile Test Center in the cruise missile storage area. A new building (previously referred to as a drivethrough storage bunker) had been completed by [] Between [] two [] and one [] meter crates were moved away from the fence, and two SS-N-2 crates were also moved. At the Balaklava Submarine Base, the SS-NX-19 loading tray had been moved adjacent to the support building at the quay by [] The cruise missile popup barge was turned ninety degrees between []

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109. (TSR) A cruise missile transfer operation was observed at Chernomorskoye Missile Test and Evaluation Facility on [] An unidentified cruise missile airframe, [] long, was being transferred from a missile canister/crate to a loading tray. A missile tube cap on the canvas-covered launcher was open. On [] a possible loading tray was protruding from the end of the launch tube.

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110. (TSR) Imagery of [] of Leningrad Weapons Test Facility 3 revealed further evidence that the testing of a probable modified version of the SS-N-12 has ceased. On [] only one SS-N-12 crate remained in the facility, and the captive fire test stand was no longer observed. The test stand had been at this facility since early 1974 and had been associated with the SS-N-12 program since June 1969. This probable modified SS-N-12 had been undergoing tests since late 1976.

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Other Missile Activity

111. (TSR) Construction activity at Feodosiya Naval Missile Support Facility continued during the reporting period. The new high-bay checkout building is externally complete, but work continued inside the building. This construction may be associated with a new or modified cruise missile system.

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Long-Range Aviation



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SECTION 4

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LONG-RANGE AVIATION

112. (TSR) This portion of the report summarizes SAL-related Soviet air activity. It includes a brief description of unusual BACKFIRE, BEAR, and BISON aircraft activity, as well as tables showing the locations and counts of these aircraft on the dates imaged. All but one (Kirovskoye Airfield) SAL-associated Soviet LRA and SNA bases; all relevant aircraft production facilities; Akhtubinsk FTC; Ramenskoye FTC; Novosibirsk Scientific Institute of Aviation (SIBNIA); and eight of the nine Soviet Arctic staging bases capable of supporting BACKFIRE were imaged during this reporting period.

BACKFIRE Aircraft Activity

Production and Flight Test Center Activity

113. (TSR) At Kazan Airframe Plant Gorbunov 22, a high count of 17 BACKFIRE B, including six modified units, was seen on imagery of [] Only 14 BACKFIRE B, including five modified units, were observed on later imagery of [] the last acquisition during this reporting period. A high count of six modified BACKFIRE B was first reported during the previous reporting period. On [] same-day coverage of the production plant, Akhtubinsk FTC, and Ramenskoye FTC revealed a new high count of eight modified units—one each at Akhtubinsk FTC and Ramenskoye FTC, and six at the plant. (This new total does not include the modified unit that burned at Ramenskoye in 1978.) This higher number indicates that an additional modified unit may have been produced at the plant between [] during which time image quality was poor and it was not possible to distinguish between the modified and standard models of BACKFIRE B. Further, the modified BACKFIRE B that was observed at Akhtubinsk FTC for the first time in December 1979 probably came from Kazan, which would account for the fact that only five modified versions were observed at the plant when high-quality imagery again became available in January. During the current period, coverage of the production facility had been intermittent (eight coverages in three months) and monitoring the program had become much more difficult.

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25X125X1
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114. (TSR) At Akhtubinsk FTC, a BACKFIRE B with a [] airframe mounted under the port wing was at the area airfield for the first time on imagery of [] This [] airframe had previously been seen only at Ramenskoye FTC. A probable checkout van/trailer was adjacent to the BACKFIRE B with the [] airframe on imagery of [] and on all subsequent imagery during this reporting period. A similar checkout van/trailer, associated with the ADV-2 ground-launched reconnaissance drone/cruise missile, has been observed at Kapustin Yar Cruise Test Complex D since [] The identification of this checkout van/trailer at Akhtubinsk may indicate a close association between the ADV-2 testing at Kapustin Yar and the [] airframe mounted on the BACKFIRE B at Akhtubinsk.

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115. (TSR) The high count of six BACKFIRE B at Ramenskoye FTC during this reporting period included one modified version. Six BACKFIRE B were seen here from [] and the one modified BACKFIRE B was last seen at this facility on [] The BACKFIRE B with the wing-mounted [] airframe was here on [] This BACKFIRE B and one other possibly associated BACKFIRE B were not seen on [] imagery or on subsequent imagery during this reporting period. One BACKFIRE B was in the New Test, Derelict, and Central Test Area on [] Historically, aircraft that have been moved to this area have seldom been returned to the flightline.

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Long-Range Aviation Activity

116. (TSR) At Belaya Airfield (Far East Bomber Command), a new high count of 17 BACKFIRE B was observed on [] and generally continued during the reporting period. Fifteen BACKFIRE B were present on [] and 14 were seen in cloud-free areas on [] the last coverage during this period. Low counts of seven and nine BACKFIRE B on [] resulted from the deployment of BACKFIRE B aircraft to Dolon Airfield, where ten were seen on [] and eight on []

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117. (TSR) Poltava Airfield (Southwest Bomber Command) was imaged at least once during each month of this reporting period. A high count of 19 BACKFIRE B was seen four times when complete coverage was acquired in March and in May, and a low count of ten was seen on cloud-degraded imagery of [] BACKFIRE were not seen in the newly constructed maintenance building in the dispersal area, and there were no indications of any further construction of this type of building in the BACKFIRE areas. On imagery of [] the presence of GSE adjacent to 12 BACKFIRE B in the dispersal area indicated a probable flight exercise, although at the time of imagery, 19 BACKFIRE B were present.

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118. (TSR) At Soltsy Airfield (Northwest Bomber Command), the count of BACKFIRE B has now stabilized at 20. This number was seen once in March, three times in April, and twice in May, including the latest imagery of [] Also on the [] imagery, three AS-4 (KITCHEN) ASM were in front of BACKFIRE, and one additional AS-4 was being transported toward the main BACKFIRE parking area. A second environmental maintenance shelter was observed under construction on [] and will be the same type as that previously constructed here during the September–November 1979 reporting period. No change has been observed in the partially dismantled CLEAT.

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119. (TSR) The count of BACKFIRE at Ryazan/Dyagilevo Airfield, the LRA training base, has returned to the previous normal count of five BACKFIRE A and three B, including the one BACKFIRE B that sustained damage to the right wing. This BACKFIRE was still present on [] the latest imagery of this installation, with the right wing removed. 25X1

Soviet Naval Aviation Activity

120. (TSR) The count of BACKFIRE B at Bykhov Airfield (Baltic Sea Fleet Air Force) has stabilized at 36, the previously reported high count. On imagery of [] four wing pylon shipping containers were identified for the first time in one of the hardstands being used for open storage. These pylons will be attached to the under portion of the wing glove to support wing-mounted AS-4 (KITCHEN) missiles. Wing-mounted AS-4 missiles have not been identified on BACKFIRE B at this base but have been seen on BACKFIRE B at Oktyabrskoye Airfield. 25X1

121. (TSR) At Oktyabrskoye Airfield (Black Sea Fleet Air Force), SNA BACKFIRE B were seen for the first time with wing-mounted AS-4 (KITCHEN) missiles. Prior to this identification, SNA BACKFIRE B were assessed as carrying one AS-4 missile belly-mounted under the centerline portion of the fuselage. On imagery of [] three BACKFIRE B were seen with wing-mounted AS-4 missiles. One additional AS-4 missile was on a dolly in the dispersal area. On [] an ASM exercise involving BACKFIRE B and BADGER C Mod was observed. Three BACKFIRE B with wing-mounted AS-4 were in the BACKFIRE dispersal area, and six AS-5 (KELT) were in the BADGER dispersal area. The count of BACKFIRE B at this base remains at 17. 25X1

122. (TSR) Seven BACKFIRE B were at Nikolayev/Kulbakino Airfield, the SNA training base, on [] Six were at the airfield and one was seen for the first time in the BEAR/BADGER repair facility. This total of seven BACKFIRE B was the highest number ever seen at this installation. 25X1

Other BACKFIRE Activity

123. (TSR) On [] ten and eight BACKFIRE B were at Dolon Airfield, a BEAR A/B/C installation in the Far East Bomber Command. These aircraft probably came from Belaya Airfield, a BACKFIRE base in the Far East Bomber Command. On these corresponding dates, seven and nine BACKFIRE B were missing from the dispersal area at Belaya Airfield. 25X1

124. (TSR) There were no changes in the status of the static display BACKFIRE A at Irkutsk Airfield Southeast or at Moscow/Monino Airfield. •

125. (TSR) BACKFIRE were not observed at the Arctic staging bases that were imaged during this reporting period. Ostrov-Greem Bell Airfield was not imaged; Koshka-Yavr Airfield was partially imaged; and imagery was acquired of the remaining seven bases: Anadyr/Ugolnyye Kopi Airfield, Markovo Airfield, Olenegorsk Airfield, Tiksi West Airfield, Umbozero Airfield South, Vorkuta Airfield East, and Yakutsk/Magan Airfield. •

126. (TSR) The first identification of AS-4 (KITCHEN) shipping containers at one of the ASM Support Facilities at Alekseyevka Airfield, an SNA base in the Pacific Fleet Air Force area, may be an indication of pending BACKFIRE deployment to this base. Twelve shipping containers were identified here for the first time at ASM Support Facility 2 on [] Alekseyevka Airfield supports a BEAR F unit and two BADGER ASM regiments. Concurrently with the arrival of the AS-4 shipping containers, hardstands in one of the BADGER dispersal areas were being renovated, possibly to support aircraft other than those presently seen here. 25X1

127. (TSR) Hardstand construction and modifications to Ostrov-Gorokhovka Airfield were continuing. Incomplete and cloud-degraded imagery of this area precluded a status report for each of the hardstand areas, but cloud-free portions of imagery did reveal that construction was in progress. No BACKFIRE or related GSE have been seen at this SNA airfield.

BEAR Aircraft Activity

Long-Range Aviation Activity

128. (TSR) At Dolon Airfield (Far East Bomber Command), the BEAR A and the BEAR B/C regiments were seen at normal strengths throughout this reporting period. On [] six BEAR B/C were seen with belly-mounted AS-3 missiles. This was the largest number of aircraft seen with missiles during this period. On [] ten BACKFIRE B were at this airfield, and on [] eight were seen. BACKFIRE B are not usually at this BEAR base. These aircraft probably came from Belaya Airfield, a BACKFIRE base in the Far East Bomber Command. In addition to the BEAR, two probable BISON tankers were present during this period. 25X1

129. (TSR) The BEAR B/C regiment at Mozdok Airfield (Southwest Bomber Command) was observed at normal strength throughout this reporting period. Twenty-one BEAR B/C are usually here. Twenty were seen on [] the earliest imagery during this period, and 16 were observed through scattered clouds on []. 25X1

Top Secret RUFF

130. (TSR) Uzin-Chepelevka Airfield (Southwest Bomber Command) which supports a BEAR A and a BEAR B/C regiment was imaged once during this period. Only 25 of the 36 BEAR A/B/C normally here could be seen through scattered clouds. A probable ASM exercise included two AS-3 (KANGAROO) in front of two BEAR B/C and one additional AS-3 being towed on a dolly. Fifteen other AS-3 were parked on the ASM parking apron.

Soviet Naval Aviation Activity

131. (TSR) One BEAR F variant was seen at Severomorsk Airfield (Northern Fleet Air Force) throughout this period. The modification to this variant consisted of a dorsal-mounted, teardrop-shaped blister, and a forward-pointing vertical stabilizer tip pod. In addition, this BEAR F did not have horizontal stabilizer tip pods that are common to the BEAR F.

132. (TSR) At Kipelevo Airfield (Northern Fleet Air Force), the BEAR D reconnaissance regiment and the BEAR F ASW regiment were seen at near normal strength during this period. Ten to 14 of the BEAR F with the rear-pointing vertical stabilizer tip pod modification were present throughout this period. A total of 44 BEAR D/F was observed on [] and a high count of 46 was imaged on []

25X1

133. (TSR) The BEAR D reconnaissance regiment at Khorol East Airfield (Pacific Fleet Air Force) was observed at normal strength throughout this period. One BEAR D without the forward portion of the fuselage was imaged on [] and on all subsequent coverages through []

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134. (TSR) At Alekseyevka Airfield (Pacific Fleet Air Force), the BEAR F ASW unit was observed at its normal strength of 14 throughout this period with the exception of [] when seven were seen on complete coverage.

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135. (TSR) Kirovskoye Airfield (Black Sea Fleet Air Force) was not imaged during this reporting period.

Other BEAR Activity

136. (TSR) One BEAR C, one BEAR C Modified, and one BEAR F variant were seen at Akhtubinsk FTC throughout this reporting period. The BEAR C Modified was observed with two tandem, belly-mounted AS-4 (KITCHEN) missiles.

137. (TSR) As many as seven BEAR A/B/C were seen at the repair facility at Belaya/Tserkov Airfield during this reporting period. This is considered normal.

138. (TSR) BEAR D and BEAR F were seen in normal strength at Nikolayev/Kulbakino Airfield, the SNA training base, and at the associated BEAR/BADGER repair facility.

139. (TSR) One to two BEAR A and two to four BEAR F were seen at Ramenskoye FTC during this reporting period. The presence of these aircraft is usual for this installation.

140. (TSR) At Kuybyshev Airframe Plant Lenin 18, a BEAR C Modified was seen for the first time on imagery of [] Same-day coverage of Akhtubinsk FTC confirmed that a total of two BEAR C Modified had been identified.

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141. (TSR) As many as 11 BEAR A were at Ukraina Airfield, a BISON base, between [] [] BEAR are not usually here. Also, between [] as many as six BEAR B/C were at Engels Airfield, a BISON base in the Northwest Bomber Command. BEAR are not usually at this base.

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142. (TSR) A low count of two BEAR F was seen at Taganrog Airframe Plant Dimitrov 86 on [] Four BEAR F were here on all imagery in May. On [] a new BEAR F variant configured with a tail extension/pod that is similar to the tail cone on the BEAR C Modified was identified.

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143. (TSR) There was no change in the status of the static display BEAR at Irkutsk Airfield Southeast, Moscow/Monino Airfield, or Voroshilovgrad Airfield Southeast.

BISON Aircraft Activity

144. (TSR) No further evidence of BISON disassembly was observed at either Engels Airfield or at Ukraina Airfield during this reporting period.

145. (TSR) At Engels Airfield (Northwest Bomber Command), the heavy bomber regiments were seen in normal strengths throughout this period. Eight BISON A, seven BISON B without refueling probes, 20 BISON B with refueling probes, and three BISON C are usually seen here. A low count of BISON occurred on [] when 32 were present. Also, between [] from two to six BEAR were observed. BEAR are not usually seen here.

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146. (TSR) The BISON heavy bomber regiments at Ukraina Airfield (Far East Bomber Command) were seen in usual strengths. On imagery of [] one BISON B without refueling probe was seen with its tail assembly removed. By [] the tail assembly had been replaced. On [] one BISON B with refueling probe was undergoing structural repair to the right wing. A wing panel was on the ground next to the right wing of this aircraft. Imagery of [] revealed that the right wing of this BISON had been removed. By [] the right wing had been replaced, and the other outer-wing panel remained on the ground nearby until [] when it was moved into a storage area on the support side of the airfield. Between [] as many as 11 BEAR were present. BEAR are not usually at this base.

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Construction continued on the renovation of the old dispersal area and hardstands east of the runway. By [] six hardstands in the southeastern section had been paved along with a section of dispersal taxiway. At least 16 other old revetments were in this area. Portions of the previously reported derelict BISON A and disassembled BISON B were still discernible.

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Other BISON Activity

147. (TSR) At Ryazan/Dyagilevo Airfield, the LRA training base, a high count of 12 BISON was observed on imagery of []. Eight were BISON A and were lined up along the parallel taxiway. Normally, two BISON A/B are in the parking area, and from two to three BISON fuselages are in the repair facility.

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148. (TSR) Two BISON A (probable tankers) and two BISON B (without refueling probes) were seen at Dolon Airfield during this reporting period. The presence of these aircraft was considered normal.

149. (TSR) At Ramenskoye FTC, three BISON with refueling probes and one BISON C were seen consistently during this reporting period. This is considered normal. On imagery of [] a BISON B was observed with its wing flaps removed. On imagery of [] one wing had been removed from the BISON, and by [] both wings had been removed. Imagery of [] revealed that this BISON had been moved to the same location where other BISON had been disassembled. No further disassembly of the BISON was observed during the remainder of this reporting period.

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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | | BISON | | | | REMARKS | | |
|-----------------------|------|-------|------|----------|---------|----------|---|------------|------|---|---|-------|---|---------|--------------|-------|-------------|------------|---|---------|--------------|---|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | MODIFIED B | A | B | C | C MOD | E | VARIANT | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | C | | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Akhtubinsk FTC | | | | X | | 8 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | | X | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | | X | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | | X | 4 | 1 | | | | | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 5 | 1 | | | | 1 | | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 5 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | Including 1 BACKFIRE B Mod & 1 BEAR C Mod |
| | | | | X | | 6 | 2 | | | | 1 | 1 | | 1 | | | | | | | | KITCHEN/KINGFISH adjacent to BACKFIRE Mod |
| | | | | | X | 9 | 1 | | | | 1 | 1 | | 1 | | | | | | | | |
| | | | | X | | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | | X | 6 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | X | | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | X | | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | | X | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | X | | 7 | 1 | | | | 1 | 1 | | 1 | | | | | | | | 1 BACKFIRE B w |
| | | | | | | | | | | | | | | | | | | | | | | |
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Top Secret RUFF

S-002/80

Sanitized Copy Approved for Release 2010/10/15 : CIA-RDP80T01355A000100140001-2

| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | | BISON | | | | REMARKS | |
|-----------------------|------|-------|------|----------|---------|----------|---|--------------|------|---|---|---|---|---|--------------|-------|-------------|------------|---|---------|---|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | C | | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | |
| Ramenskoye FTC | | | | X | | 4 | | | | | | | | 2 | | | | | | | Heavy clouds |
| | | | | X | | 0 | | | | | | | | 3 | 1 | | | 3 | 1 | | Heavy clouds in BACKFIRE area |
| | | | | X | | 6 | | | | | | | | 5 | | | | | 4 | | 1 poss BACKFIRE Mod |
| | | | | X | | 6 | | 1 | | | | | | 4 | | | | 3 | 1 | | 1 BACKFIRE Mod, BEAR A w/tail ext |
| | | | | X | | 6 | | 1 | | | | | | 4 | | | | 3 | 1 | | 1 BACKFIRE Mod, BEAR A w/tail ext |
| | | | | X | | 6 | | 1 | | | | | | 4 | | | | 3 | 1 | | 1 BACKFIRE Mod, BEAR A w/tail ext |
| | | | | X | | 5 | | | | | | | | 5 | | | | 3 | 1 | | |
| | | | | X | | 5 | | | | | | | | 5 | | | | 3 | 1 | | |
| | | | | X | | 5 | | | | | | | | 4 | | | | 3 | 1 | | |
| | | | | X | | 5 | | 1 | | | | | | 4 | | | | 3 | 1 | | airframe on BACKFIRE B, BEAR A w/tail ext |
| | | | | X | | 5 | | 1 | | | | | | 4 | | | | 3 | 1 | | BEAR A w/tail ext, airframe obscured by obliquity |
| | | | | X | | 4 | | 2 | | | | | | 3 | 1 | | | 3 | 1 | | 1 BACKFIRE Mod, 1 BACKFIRE B in test/derelect area |
| | | | | X | | 3 | | 1 | | | | | | 2 | | | | 2 | 1 | | BEAR A w/o tail ext, BISON B wing off |
| | | | | X | | 4 | | 2 | 1 | | | | | 3 | | | | 3 | 1 | | 1 - BISON B partially disassembled |
| | | | | X | | 4 | | 2 | 1 | | | | | 2 | | | | 2 | 1 | | 1 - BISON B partially disassembled |
| | | | | X | | 4 | | 1 | 1 | | | | | 3 | | | | 3 | 1 | | 1 - BISON B partially disassembled, 1 BEAR A w/tail ext |
| | | | | X | | 4 | | 2 | 1 | | | | | 3 | | | | 3 | 1 | | 1 - BISON B partially disassembled |
| | | | | | | | | | | | | | | | | | | | | | |
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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | | |
|-----------------------|------|-------|------|----------|---------|----------|---|--------------|------|---|---|---|---|---|--------------|---|-------------|------------|---------|---|--------------|--|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Belaya Airfield | | | | X | | 15 | | | | | | | | | | | | | | | | Partial coverage |
| | | | | | X | 15 | | | | | | | | | | | | | | | | |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | | X | 13 | | | | | | | | | | | | | | | | Scattered clouds |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | X | | 7 | | | | | | | | | | | | | | | | Low count due to deployment of 10 BACKFIRE B to Dolon Airfield |
| | | | | X | | 9 | | | | | | | | | | | | | | | | Low count due to deployment of 8 BACKFIRE B to Dolon Airfield |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | X | | 9 | | | | | | | | | | | | | | | | |
| | | | | | X | 0 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 7 | | | | | | | | | | | | | | | | Partial coverage; low count of BACKFIRE due to light activity |
| | | | | | X | 0 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 17 | | | | | | | | | | | | | | | | Partial coverage |
| | | | | | X | 9 | | | | | | | | | | | | | | | | Partial coverage; low count of BACKFIRE due to light activity |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | | X | 5 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 10 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | X | | 17 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | |
|-----------------------|------|-------|------|----------|---------|------------------|---|--------------|------|---|---|---|---|---|--------------|---|-------------|------------|---------|---|------------------|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | |
| Belaya Airfield | | | | X | | 17 | | | | | | | | | | | | | | | |
| | | | | X | | 17 | | | | | | | | | | | | | | | |
| | | | | | X | 16 | | | | | | | | | | | | | | | Partial coverage |
| | | | | X | | 16 | | | | | | | | | | | | | | | |
| | | | | | X | 17 | | | | | | | | | | | | | | | Partial coverage |
| | | | | | X | 17 | | | | | | | | | | | | | | | Haze |
| | | | | | X | 17 | | | | | | | | | | | | | | | Partial coverage |
| | | | | | X | 1 | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 5 prob 1 poss | | | | | | | | | | | | | | | Heavy clouds |
| | | | | X | | 17 | | | | | | | | | | | | | | | Haze |
| | | | | X | | 14 | | | | | | | | | | | | | | | |
| | | | | X | | 14 | | | | | | | | | | | | | | | |
| | | | | | X | 5 | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 14 | | | | | | | | | | | | | | | Scattered clouds |
| | | | | | X | 14 | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | | | | | | | | | | | | | | | | | |
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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | | |
|-----------------------|------|-------|------|----------|---------|----------|---|--------------|------|---|---|---|---|---|--------------|---|-------------|------------|---------|---|--------------|--|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Soltsey Airfield | | | | X | | 13 | | | | | | | | | | | | | | | | |
| | | | | | X | 12 | | | | | | | | | | | | | | | | Partial coverage |
| | | | | X | | 19 | | | | | | | | | | | | | | | | |
| | | | | X | | 18 | | | | | | | | | | | | | | | | |
| | | | | | X | 17 | | | | | | | | | | | | | | | | Partial coverage |
| | | | | X | | 19 | | | | | | | | | | | | | | | | |
| | | | | X | | 19 | | | | | | | | | | | | | | | | |
| | | | | X | | 19 | | | | | | | | | | | | | | | | |
| | | | | X | | 20 | | | | | | | | | | | | | | | | |
| | | | | X | | 19 | | | | | | | | | | | | | | | | |
| | | | | | X | 14 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | | X | 19 | | | | | | | | | | | | | | | | Scattered clouds; 1 BACKFIRE B observed with missile |
| | | | | X | | 20 | | | | | | | | | | | | | | | | |
| | | | | X | | 20 | | | | | | | | | | | | | | | | A second environmental shelter under construction |
| | | | | | X | 20 | | | | | | | | | | | | | | | | Partial coverage |
| | | | | X | | 28 | | | | | | | | | | | | | | | | |
| | | | | | X | 8 | | | | | | | | | | | | | | | | Scattered clouds |
| | | | | | X | 11 | | | | | | | | | | | | | | | | Heavy clouds |
| | | | | X | | 12 | | | | | | | | | | | | | | | | AS-4 exercise in dispersal area |
| | | | | | | | | | | | | | | | | | | | | | | |
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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | BEAR | | | | | | | BISON | | | | REMARKS | | | |
|-----------------------|------|-------|------|----------|---------|----------|---|--------------|---|---|---|---|---|---|--------------|---|-------------|------------|---------|---|---------------------------|--|
| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Ryazan Dyagilevo | | | | X | | 5 | 3 | | | | | | | | | | 1 | 1 | | | 2 undet 3 fus 3 fus | 1 BACKFIRE B with damaged right wing |
| | | | | X | | 5 | 3 | | | | | | | | | | | | | | | |
| | | | | X | | 3 | 3 | 2 | | | | | | | | | | | | | 2 undet 3 fus 3 fus | |
| | | | | X | | 5 | 3 | | | | | | | | | | | 1 | 1 | | | |
| | | | | X | | 4 | 1 | | | | | | | | | | | 1 | 1 | | | 3 fus |
| | | | | X | | 3 | 2 | 3 | | | | | | | | | | 1 | 1 | | | 3 fus |
| | | | | | X | | | | | | | | | | | | | | | | | Heavy clouds; none observed |
| | | | | | X | 3 | 2 | 3 | | | | | | | | | | | | | 1B | |
| | | | | X | | 5 | 3 | | | | | | | | | | 8 | | 1 | | 3B fus | |
| | | | | | X | | | | | | | | | | | | | | | | | Heavy clouds; none observed |
| | | | | | X | 2 | 2 | 4 | | | | | | | | | | | 1 | | 1 undet 3B fus | |
| | | | | | X | | | | | | | | | | | | | | | | | Heavy clouds; none observed |
| | | | | X | | 4 | 4 | | | | | | | | | | 1 | 1 | | | 3B fus w/probe | BACKFIRE B with right wing removed; still observed |
| | | | | | | | | | | | | | | | | | | | | | | |
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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | | |
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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Dolon Airfield | | | X | | | | | | 16 | 13 | 5 | | 3 | | | | | | | | | |
| | | | X | | | | | | 16 | | | | 1 poss | 18 B/C 1A/B/C | | | | | | | | |
| | | | X | | | | | | 16 | | 4 | | 2 1 poss | 11 B/C | | | | | | | | 6 BEAR B/C with belly-mounted AS-3 |
| | | | X | | | | | | | | | | | 37 A/B/C | | | | | | | | |
| | | | X | | | | | | | | | | | 18 A/E 18 B/C | | | | | | | | |
| | | | X | | | | | | 16 | | | | 1 prob 2 | 16 B/C | | 2 | | | | | | |
| | | | X | | | | | | 7 | 12 | 3 | | | | | 2 | | | | | | |
| | | | X | | | | | | 7 | 11 | 7 | | 2 | | | 2 | | | | | | 1 BEAR B and 1 BEAR C with belly-mounted AS-3 |
| | | | | X | | | 10 | | | | | | | 18 A/E 18 B/C | | | | | | | | Scattered clouds; first sighting of BACKFIRE at this airfield during this reporting period The BACKFIRE deployed here to participate in a spring flight training exercise |
| | | | X | | | | 8 | | 17 | 14 | 4 | | 1 1 prob | | | 2 | | | | | | |
| | | | X | | | | | | 18 | 1 | | | 1 prob | 17 B/C | | 2 | | | | | | |
| | | | | X | | | | | 14 prob | | | | | 6 B/C | | 2 prob | | | | | | Scattered clouds |
| | | | X | | | | | | 15 | 16 | 3 | | 2 | | | 1 | | | | | | |
| | | | X | | | | | | 15 | 12 | 7 | | 2 | | | | | | | | | |
| | | | X | | | | | | 16 | 1 | | | 1 prob | 18 B/C | | | | | | | | |
| | | | X | | | | | | 16 | 11 | 6 | | 1 prob | | | | | | | | | |
| | | | | X | | | | | 17 prob | | 1 | | 1 prob | 17 B/C | | | | | | | | |
| | | | X | | | | | | 16 | | | | 2 | 18 B/C | | | | | | | | 1 AN-22 (COCK) was observed |
| | | | X | | | | | | 17 | | 1 | | 1 | 17 B/C | | | | | | | | |
| | | | | X | | | | | 16 | 12 | 6 | | 2 | | | | | | | | | |
| | | | | X | | | | | 11 prob | 7 | 1 | | 2 | 4 B/C | | | | | | | | |

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| INSTALLATION/FACILITY | DATE | | | COVERAGE | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | | |
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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | | B W/ PROBE | C | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | |
| Aleksseyevka Airfield | | | | X | | | | | | | | | | 14 | | | | | | | 14 BEAR F are normally seen at this airfield |
| | | | | X | | | | | | | | | | 10 | | | | | | | |
| | | | | X | | | | | | | | | | 14 | | | | | | | |
| | | | X | | | | | | | | | | | 14 | | | | | | | |
| | | | X | | | | | | | | | | | 14 | | | | | | | |
| | | | | X | | | | | | | | | | 9 | | | | | | | Heavy clouds |
| | | | | X | | | | | | | | | | 14 | | | | | | | |
| | | | | X | | | | | | | | | | 10 | | | | | | | |
| | | | | X | | | | | | | | | | 13 | | | | | | | |
| | | | | X | | | | | | | | | | 12 | | | | | | | Heavy clouds |
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| | | | | X | | | | | | | | | | 14 | | | | | | | |
| | | | X | | | | | | | | | | | 14 | | | | | | | |
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| | | | | X | | | | | | | | | | 13 | | | | | | | |
| | | | X | | | | | | | | | | | 13 | | | | | | | |
| | | | | X | | | | | | | | | | 1 poss 7 | | | | | | | Scattered clouds |
| | | | | X | | | | | | | | | | 4 | | | | | | | Scattered clouds |
| | | | | X | | | | | | | | | | 2 | | | | | | | Heavy clouds |

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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | | BEAR | | | | | | BISON | | | | REMARKS | | |
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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Khorol Airfield East | | | | X | | | | | | | | 18 | | | | | | | | | 18 BEAR D normally seen at this airfield 1 BEAR D w/o forward fuselage |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 16 | | | | | | | | | |
| | | | | | X | | | | | | | 3 | | | | | | | | | Heavy clouds |
| | | | | X | | | | | | | | 13 | | | | | | | | | |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 14 | | | | | | | | | |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 18 | | | | | | | | | |
| | | | | X | | | | | | | | 17 | | | | | | | | | Low count |
| | | | | X | | | | | | | | 12 | | | | | | | | | Low count |
| | | | | X | | | | | | | | 25 | | | | | | | | | High count |
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| INSTALLATION/FACILITY | DATE | | | COVERAGE | | BACKFIRE | | BEAR | | | | | | | BISON | | | | REMARKS | | |
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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B W/O PROBE | B W/ PROBE | | C | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | |
| Severomorsk Airfield | | | | X | | | | | | | | | | | 1 D/F | | | | | | Haze |
| | | | | X | | | | | | | | | | 1 | | | | | | | A BEAR F with a tear drop shaped blister and vertical stabilizer tip pod forward was observed throughout this reporting period |
| | | | | | X | | | | | | | | | 1 | | | | | | | Partial coverage |
| | | | | X | | | | | | | | | | 1 | | | | | | | |
| | | | | X | | | | | | | | | | 1 | | | | | | | |
| | | | | X | | | | | | | | | | 1 | | | | | | | |
| | | | | X | | | | | | | | | | 1 | | | | | | | Partial coverage |
| | | | | | X | | | | | | | | | 1 | | | | | | | |
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| | | | | X | | | | | | | | | | 1 | | | | | | | |
| | | | | | X | | | | | | | | | 1 | | | | | | | Partial coverage - vertical stabilizer tip pod was removed |
| | | | | | | | | | | | | | | | | | | | | | |
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| INSTALLATION/FACILITY | DATE | | COVERAGE | | BACKFIRE | | BEAR | | | | | | BISON | | | | REMARKS | | | | | | |
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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | | B W/O PROBE | | B W/ PROBE | | UNDETERMINED | |
| | | | | | | | | | | | | | | | | | | C | D | | | | |
| Ukraine Airfield | | | | X | | | | | | | | | | | | | 6 | 6 | 16 | 5 | 1 | | |
| | | | | X | | | | | | | | | | | | | 6 | 6 | 16 | 5 | 1 | | |
| | | | | X | | | | | | | | | | | | | 6 | 4 | 11 | 4 | 2 undet 6B | | |
| | | | | X | | | | | | | | | | | | | 6 | 1 | 14 | 5 | 1 undet 7B | | |
| | | | | | X | | | | | | | | | | | | None observed | | | | | | |
| | | | | X | | | | | | | | | | | | | 6 | 6 | 16 | 5 | 1 | | |
| | | | | X | | | | | | | | | | | | | 6 | 6 | 15 | 5 | 2B | | |
| | | | | X | | | | | | | | | | | | | 4 | 5 | 11 | 3 | 6 undet 3B | | |
| | | | | X | | | | | | | | | | 2 A/B 1 A/B/C | | | 4 | 5 | 10 | 3 | 6 undet 4B | | |
| | | | | | X | | | | | | | | | 11 A/B/C | | | | | | | 27 | | |
| | | | | X | | | | 11 | | | | | | | | | 4 | 5 | 11 | 4 | 3 undet 4B | | |
| | | | | X | | | | 5 | | | | | | 4 | | | 4 | 5 | 9 | 5 | 9B | | |
| | | | | X | | | | 11 | | | | | | | | | 4 | 5 | 11 | 5 | 5 undet 2B | | |
| | | | | X | | | | | | | | | | | | | 4 | | 9 | 5 | 7 undet 5B | | |
| | | | | X | | | | | | | | | | | | | 4 | 6 | 11 | 5 | 2 undet 4B | | |
| | | | | X | | | | | | | | | | | | | | | 6 | | 27 | | |
| | | | | X | | | | | | | | | | | | | 1 | 4 | | | 3 A/C 15B 8 undet | | |
| | | | | X | | | | | | | | | | | | | 4 | 3 | 10 | 5 | 6 undet 4B | | |
| | | | | X | | | | | | | | | | | | | 4 | 3 | 4 | 4 | 4 undet 13B | | |

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| | DAY | MONTH | YEAR | COMPLETE | PARTIAL | A | B | UNDETERMINED | A | B | C | D | E | F | UNDETERMINED | A | B | W/O PROBE | | B W/ PROBE | C | UNDETERMINED |
| | | | | | | | | | | | | | | | | | | | | | | |
| Ukraina Airfield | | | X | | | | | | | | | | | | | 3 | 5 | 13 | 3 | 1 undet 2 A/C 5B | | |
| | | | X | | | | | | | | | | | | | 4 | 3 | 11 | 4 | 2 undet 6B 32 | | |
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| | | | X | | | | | | | | | | | | | 3 | 5 | 12 | 4 | 4 undet 4B | | |
| | | | X | | | | | | | | | | | | | 5 | 0 | 6 | 4 | 4 undet 13B | | |
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| | | | | X | | | | | | | | | | | | 5 | 1 | 10 | 5 | 2 undet 1B | | |
| | | | X | | | | | | | | | | | | | 5 | 6 | 14 | 4 | 3B | | |
| | | | X | | | | | | | | | | | | | 5 | | 3 | 3 | 18 undet 5B | | |
| | | | X | | | | | | | | | | | | | 6 | 0 | 11 | 3 | 10 undet 4B | | |
| | | | | X | | | | | | | | | | | | 6 | 3 | 12 | 5 | 7B | | |
| | | | | X | | | | | | | | | | | | 1 | | 12 | 3 | 11 undet 1B | | |
| | | | X | | | | | | | | | | | | | 6 | 6 | 17 | 5 | | | |
| | | | X | | | | | | | | | | | | | 6 | 6 | 17 | 5 | | | |
| | | | | X | | | | | | | | | | | | 6 | 6 | 14 | 5 | 1 undet 2B | | |
| | | | | X | | | | | | | | | | | | 3 | 4 | 6 | 3 | 9 | | |
| | | | X | | | | | | | | | | | | | 3 | 5 | 13 | 2 | 8 undet 3B | | |
| | | | X | | | | | | | | | | | | | | | | | 34 | | |
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